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Claims

1. A synergistic herbicidal mixture comprising

5 A) imazamox, including its respective isomers as well as its respective environmentally compatible salts or esters or amides or other derivatives;

and

10 B) at least one herbicidal compound of the group of chloro acetamides, oxyacetamides and tetrazolinones as well as quinmerac including their respective isomers as well as their respective environmentally compatible salts or esters or amides or other derivatives

15 and, if desired,

C) at least one herbicidal compound selected from the group consisting of clomazone, atrazin, dichlormid, benoxacor, LAB-145138, MG-191, MON-13900, cyometrinil, oxabetrinil, fluxofenim, flurazole,
 20 naphtalicacidanhydride, fenchlorim, fenchlorazol, mefenpyr, cloquintocet (including its hydrate(s)), 1-ethyl-4-hydroxy-3-(1H-tetrazol-5-yl)-1H-quinolin-2-one, 4-carboxymethyl-chroman-4-carboxylic acid, N-(2-methoxybenzoyl)-4-(3-methyl-ureido)-benzenesulfonamide, (3-oxo-isothiocroman-4-ylidenemethoxy)-acetic acid methyl ester including their respective
 25 isomers as well as their respective environmentally compatible salts or esters or amides or other derivatives.

2. A synergistic herbicidal mixture as claimed in claim 1 in which component B) are chloro acetamides, including their respective isomers as well as their respective environmentally compatible salts or esters or amides or other derivatives.

30 3. A synergistic herbicidal mixture as claimed in claims 1 to 2 in which the chloro acetamides, including their respective isomers as well as their respective environmentally compatible salts or esters or amides or other derivatives are selected from the group consisting of metazachlor, metolachlor and dimethenamid.

35 4. A synergistic herbicidal mixture as claimed in claims 1 to 3 in which the chloro acetamide is metazachlor including its respective isomers as well as its
 40 respective environmentally compatible salts or esters or amides or other derivatives.

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5. A herbicidal composition comprising a herbicidally active amount of a synergistic herbicidal mixture as claimed in any of claims 1 to 4, at least one inert liquid and/or solid carrier and, if desired, at least one further additive.

5 6. A method of controlling undesired vegetation, which comprises applying a synergistic herbicidal mixture as claimed in any of claims 1 to 4 before, during and/or after the emergence of undesired plants simultaneously or in succession.

7. A method as claimed in claim 6, used in crops.

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8. A method as claimed in claim 7, wherein the crops are tolerant or resistant against the synergistic herbicidal mixture.

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9. A method as claimed in claims 7 to 8, wherein the crop is brassica napus.

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10. A method of controlling undesired vegetation in ALS-herbicide resistant or tolerant brassica napus, which comprises applying a synergistic herbicidal mixture comprising

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A) a compound selected from the group consisting of imidazolinones, including their respective isomers as well as their respective environmentally compatible salts or esters or amides or other derivatives and B) at least one herbicidal compound of the group of chloro acetamides, oxyacetamides and tetrazolinones as well as quinmerac including their respective isomers as well as their respective environmentally compatible salts or esters or amides or other derivatives and, if desired C) at least one herbicidal compound selected from the

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group consisting of clomazone, atrazin, dichlormid, benoxacor, LAB-145138, MG-191, MON-13900, cyometrinil, oxabetrinil, fluxofenim, flurazole, naphtalicacidanhydride, fenchlorim, fenchlorazol, mefenpyr, cloquintocet

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(including its hydrate(s)), 1-ethyl-4-hydroxy-3-(1*H*-tetrazol-5-yl)-1*H*-quinolin-2-one, 4-carboxymethyl-chroman-4-carboxylic acid, *N*-(2-methoxy-benzoyl)-4-(3-methyl-ureido)-benzenesulfonamide, (3-oxo-isothiochroman-4-ylidenemethoxy)-acetic acid methyl ester including their respective isomers as well as their respective environmentally compatible salts or esters or amides or other derivatives

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before, during and/or after the emergence of undesired plants simultaneously or in succession.